Website: www.thermosensors.com

# **Resistance Temperature Detectors (RTDs)**

Resistance Temperature Detectors (RTD's). These detectors are frequently used in the plastics industries and many others. Care must be taken to eliminate moisture and vibration effects can be troublesome as well. Thermo Sensors provides the utmost in current state of the art in materials, techniques and research.

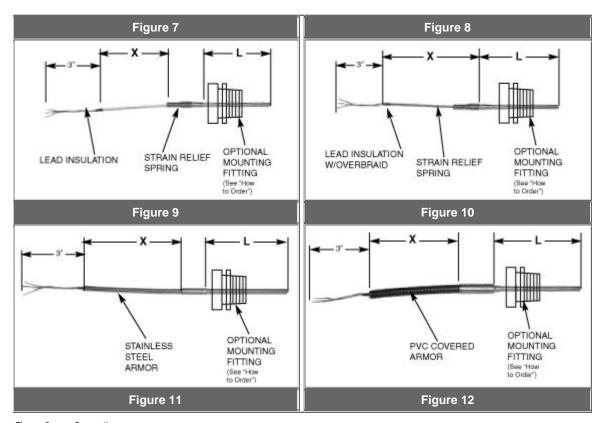
Thermo Sensors offers the Reliatemp RTD. This RTD features lifetime moisture free use as well as excellent vibration resistance.

Please refer to our order guide to assist in determining your needs. We can also provide technical design assistance and application suggestions. Give us a call.

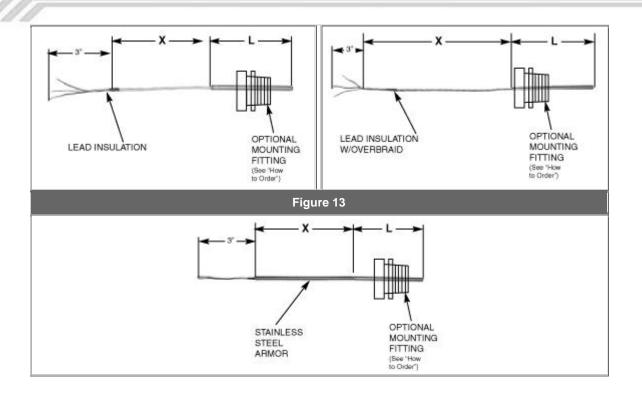


# **Extended Lead RTD Assemblies**

#### Table A (cont.)



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Lead Insulation	Basic Order Code						
	Figure 7	Figure 8	Figure 9	Figure 10	Figure 11	Figure 12	Figure 13
Teflon	TT (X)	TTS (X)	TTA (X)	TTP (X)	T (X)	TS (X)	TA (X)
Kapton	TK (X)	TKS (X)	TKA (X)	TKP (X)	K (X)	KS (X)	KA (X)
Polyvinyl	TP (X)	TPS (X)	TPA (X)	TPP (X)	P (X)	PS (X)	PA (X)
Fiberglass	TG (X)	TGS (X)	TGA (X)	TGP (X)	G (X)	GS (X)	GA (X)

# How to Order:

Replace the "X" in "Basic" order code with desired lead extension Length in inches.

Example: TT48 for 48" Lead Length

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# **RTD Assembly Specifications**

# Table B (sensor diameter)

Senso	or Diameter	Order Code
1/8"	(.125")	2
3/16"	(.188")	3
1/4"	(.250")STD	4
5/16"	(.312")	5
3/8"	(.375")	6

# Table C (element)

Resistance Material 0°C		Temperature Coefficient/Alpha (a)	Order Code	
0.0			Single Element	Dual Element
100Ω	Platinum	.00385Ω/Ω°C	А	2A
100Ω	Platinum	.003916Ω/Ω°C	В	2B
100Ω	Platinum	.003902Ω/Ω°C	С	2C
98.129Ω (100Ωnom-)	Platinum Sama Standard RC21-4-1966	.00392Ω/Ω°C	D	2D
120Ω	Nickel	.00672Ω/Ω°C	E	2E
9.035Ω	Copper	.00427Ω/Ω°C	F	2F

# Table D (tolerance)

Accura	acy at 0°C	Order Code
± .12%	Class B	1
± .06%	Class A	2
± .03%	Lab Grade	3
± .02%	Lab Grade	4
± .01%	Lab Grade	5

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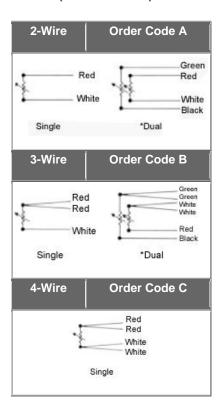
#### Table E (temperature range)

Temperature Range	Order Code
-50 to +250 Deg. C -58 to +482 Deg. F	A
-50 to +400 Deg. C -58 to +752 Deg. F	В
-50 to +660 Deg. C -58 to +1220 Deg. F	С

# Table F (sheath material)

Sheath Material	Order Code
316 SS	1
Alloy 600	2
Alloy C-276	3

#### Table G (lead connection)



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# Table H (length)

Specify "L" in Inches Length Not required when Thermowell is used.

# **Optional Connections**

#### (For extended lead types)

# Table I (options)

	Descriptior		Order Code	
200	Spade Lugs for Screw	#8	L	
-:-	Male Plug		М	
=:- 5 0		The connectors shown are for 3-wire single element assemblies.		
: 0-:	Two - 2 Pin connectors mo in tandem will be furnishe both styles of 4-wire single element assemblies.		ned for single	
	Dual element assemblies will have the same connector arrangements except Doubled.		ector	
	Female Jack	(	F	
> <b>=(2)</b>	Watertight connector	1/2" NPT	W1	
NPT -		3/4" NPT	W3	
<b>&gt;=</b>	Watertight connector with lugs for #8	1/2" NPT	WL1	
NPT —	screws	3/4" NPT	WL3	

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Optional Mounting Fittings			
Description	NPT	Order Code	
	1/8"	1AS	
- F- Birtha		2AS	
пре	3/8"	3AS	
	1/2"	4AS	
	3/4"	6AS	
For Teflon readjustable insert, replace "A" with "R" Example: 4RS			

Optional Spring-Loaded Devices		
Description	Order Code	
Adjustable Spring	FP 275	
1/2" NPT Double threaded adjustable hex bushing	FP 240	
1/2" NPT single threaded adjustable hex bushing	SSL	